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### 1 [Digital rights management in a 3G mobile phone and beyond](#)

[Thomas S. Messerges, Ezzat A. Dabbish](#)

October 2003 **DRM '03: Proceedings of the 3rd ACM workshop on Digital rights management**

**Publisher:** ACM

Full text available: [Pdf](#) (306.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 30, Downloads (12 Months): 287, Citation Count: 9

In this paper we examine how copyright protection of digital items can be securely managed in a 3G mobile phone and other devices. First, the basic concepts, strategies, and requirements for digital rights management are reviewed. Next, a framework for ...

**Keywords:** MPEG-21, copyright protection, cryptography, digital content, digital rights management, embedded system, key management, mobile phone, open mobile alliance, security

### 2 [A secure infrastructure for service discovery and access in pervasive computing](#)

Jeffrey Undercoffer, Filip Perich, Andrej Cedilnik, Lalana Kagal, Anupam Joshi  
April 2003 **Mobile Networks and Applications**, Volume 8 Issue 2

**Publisher:** Kluwer Academic Publishers

Full text available: [Pdf](#) (308.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 24, Downloads (12 Months): 155, Citation Count: 10

Security is paramount to the success of pervasive computing environments. The system presented in this paper provides a communications and security infrastructure that goes far in advancing the goal of anywhere-anytime computing. Our work securely enables ...

**Keywords:** distributed services, extensible markup language, pervasive computing, security, smartcards

**3** [OceanStore: an architecture for global-scale persistent storage](#)



[John Kubiatowicz](#), [David Bindel](#), [Yan Chen](#), [Steven Czerwinski](#), [Patrick Eaton](#), [Dennis Geels](#), [Ramakrishna Gummadi](#), [Sean Rhea](#), [Hakim Weatherspoon](#), [Chris Wells](#), [Ben Zhao](#)

December 2000 **ASPLOS-IX: Proceedings of the ninth international conference on Architectural support for programming languages and operating systems**

**Publisher:** ACM

Full text available: [Pdf](#) (166.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 39, Downloads (12 Months): 261, Citation Count: 234

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. ...

Also published in:

December 2000 **SIGARCH Computer Architecture News** Volume 28 Issue 5

December 2000 **SIGOPS Operating Systems Review** Volume 34 Issue 5

**4** [Report of the national workshop on internet voting: issues and research agenda](#)

[C. D. Mote, Jr.](#)

May 2000 **dg.o '00: Proceedings of the 2000 annual national conference on Digital government research**

**Publisher:** Digital Government Research Center

Full text available: [Pdf](#) (539.99 KB) Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 173, Citation Count: 0

As use of the Internet in commerce, education and personal communication has become common, the question of Internet voting in local and national elections naturally arises. In addition to adding convenience and precision, some believe that Internet ...

**5** [Report of the national workshop on internet voting: issues and research agenda](#)

[C. D. Mote, Jr.](#)

May 2002 **dg.o '02: Proceedings of the 2002 annual national conference on Digital government research**

**Publisher:** Digital Government Research Center

Full text available: [Pdf](#) (539.99 KB) Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 93, Citation Count: 0

## 6 [Decentralized user authentication in a global file system](#)



[Michael Kaminsky](#), [George Savvides](#), [David Mazieres](#), [M. Frans Kaashoek](#)

December 2003 **SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles**

**Publisher:** ACM

Full text available: Pdf (144.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 132, Citation Count: 8

The challenge for user authentication in a global file system is allowing people to grant access to specific users and groups in remote administrative domains, without assuming any kind of pre-existing administrative relationship. The traditional approach ...

**Keywords:** ACL, SFS, authentication, authorization, credentials, file system, groups, users

Also published in:

December 2003 **SIGOPS Operating Systems Review** Volume 37 Issue 5

## 7 [Extending document management systems with user-specific active properties](#)



[Paul Dourish](#), [W. Keith Edwards](#), [Anthony LaMarca](#), [John Lamping](#), [Karin Petersen](#), [Michael Salisbury](#), [Douglas B. Terry](#), [James Thornton](#)

April 2000 **Transactions on Information Systems (TOIS)** , Volume 18 Issue 2

**Publisher:** ACM

Full text available: Pdf (166.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 45, Downloads (12 Months): 270, Citation Count: 42

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional hierarchical storage mechanisms, reflects document organizations meaningful ...

**Keywords:** active properties, component software, document management systems, document services, user experience

## 8 [Certificate validation service using XKMS for computational grid](#)



[Namje Park](#), [Kiyoun Moon](#), [Sungwon Sohn](#)

October 2003 **XMLSEC '03: Proceedings of the 2003 ACM workshop on XML security**

**Publisher:** ACM

Full text available: Pdf (7.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 75, Citation Count: 1

A computational grid is a hardware and software infrastructure capable of providing dependable, consistent, pervasive, and inexpensive access to high-end computational resource. There are many ways to access the resources of a computational grid, each ...


**Keywords:** GSI, XKMS, XML, XML security, certificate validation, grid, key management, security

9 Joint Policy Management and Auditing in Virtual Organizations

Timothy J. Smith, Lavanya Ramakrishnan

November 2003 **GRID '03:** Proceedings of the 4th International Workshop on Grid Computing

**Publisher:** IEEE Computer Society

Full text available:  Pdf (161.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 20, Citation Count: 2

A major problem facing organizations using grid-computing models is the reluctance to participate in multi-organizational collaborative environments due to security concerns, such as unauthorized access, and fair resource usage. The Joint control of Virtual ...


10 Defending against redirect attacks in mobile IP



Robert H. Deng, Jianying Zhou, Feng Bao

November 2002 **CCS '02:** Proceedings of the 9th ACM conference on Computer and communications security

**Publisher:** ACM

Full text available:  Pdf (266.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 103, Citation Count: 2

The route optimization operation in Mobile IP Version 6 (MIPv6) allows direct routing from any correspondent node to any mobile node and thus eliminates the problem of "triangle routing" present in the base Mobile IP Version 4 (MIPv4) protocol. Route ...

**Keywords:** authenticated key-exchange, mobile IP, mobile IP security, redirect attack, secure binding update

**11** An infrastructure for managing secure update operations on XML data



Elisa Bertino, Giovanni Mella, Gianluca Correndo, Elena Ferrari

June **SACMAT '03**: Proceedings of the eighth ACM symposium on Access control models and technologies

**Publisher:** ACM

Full text available: Pdf (317.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 40, Citation Count: 3

Secure exchange of data over the web is becoming more and more important today. By secure data exchange we mean that privacy and integrity are ensured when documents flow among different parties. A key issue in this scenario is how to ensure that web ...

**Keywords:** XML, distributed updates, integrity check protocols

**12** Secure and flexible certificate access in WS-security through LDAP



component matching

Sang Seok Lim, Jong Hyuk Choi, Kurt D. Zeilenga

October **SWS '04**: Proceedings of the 2004 workshop on Secure web service 2004

**Publisher:** ACM

Full text available: Pdf (349.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 85, Citation Count: 1

As an integral part of the Web Services Security (WS-Security), directory services are used to store and access X.509 certificates. Lightweight Directory Access Protocol (LDAP) is the predominant directory access protocol for the Internet, and hence ...

**Keywords:** LDAP, PKI, X.509 certificate, certificate repository, component matching

**13** A reputation-based approach for choosing reliable resources in peer-to-peer



networks

Ernesto Damiani, De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati, Fabio Violante

November **CCS '02**: Proceedings of the 9th ACM conference on Computer and communications security 2002

**Publisher:** ACM

Full text available: Pdf (650.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 31, Downloads (12 Months): 338, Citation Count: 42

Peer-to-peer (P2P) applications have seen an enormous success, and recently introduced P2P services have reached tens of millions of users. A feature that significantly contributes to the success of many P2P applications is user anonymity. However, anonymity ...

**Keywords:** peer-to-peer network, polling protocol, reputation-based systems

14 Tarzan: a peer-to-peer anonymizing network layer



Michael J. Freedman, Robert Morris

November 2002 **CCS '02: Proceedings of the 9th ACM conference on Computer and communications security**

**Publisher:** ACM

Full text available: Pdf (242.72 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 165, Citation Count: 44

Tarzan is a peer-to-peer anonymous IP network overlay. Because it provides IP service, Tarzan is general-purpose and transparent to applications. Organized as a decentralized peer-to-peer overlay, Tarzan is fault-tolerant, highly scalable, and easy to ...

**Keywords:** IP tunnels, anonymity, cover traffic, distributed trust, mix-nets, overlay networks, peer-to-peer

15 Introduction of the asymmetric cryptography in GSM, GPRS, UMTS, and its public key infrastructure integration

Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris

April 2003 **Mobile Networks and Applications**, Volume 8 Issue 2

**Publisher:** Kluwer Academic Publishers

Full text available: Pdf (107.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 141, Citation Count: 1

The logic ruling the user and network authentication as well as the data ciphering in the GSM architecture is characterized, regarding the transferring of the parameters employed in these processes, by transactions between three nodes of the system, ...

**Keywords:** PKIs, PLMNs, asymmetric cryptography

**16** Anonymity and accountability in self-organizing electronic communities



Csilla Farkas, Gábor Ziegler, Attila Meretei, András Lőrincz

November  
2002

**WPES '02: Proceedings of the 2002 ACM workshop on Privacy in the Electronic Society**

**Publisher:** ACM

Full text available: Pdf (355.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 66, Citation Count: 3

In this paper we study the problem of anonymity versus accountability in electronic communities. We argue that full anonymity may present a security risk that is unacceptable in certain applications; therefore, anonymity and accountability are both needed. ...

**Keywords:** accountability, anonymity, authentication, privacy, self-organizing community

**17** An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz

March  
2002

**Wireless Networks**, Volume 8 Issue 2/3

**Publisher:** Kluwer Academic Publishers

Full text available: Pdf (365.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 81, Citation Count: 8

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device ...

**Keywords:** location services, name lookup, network protocols, service discovery

**18** OceanStore: an architecture for global-scale persistent storage



John Kubiawicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eaton, Dennis Geels, Ramakrishnan Gummadi, Sean Rhea, Hakim Weatherspoon, Westley Weimer, Chris Wells, Ben Zhao

November  
2000

**SI GLAN Notices**, Volume 35 Issue 11

**Publisher:** ACM

Full text available: Pdf (1.47 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 82, Citation Count: 4

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. ...

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